Double Origin of the Anterior Descending Coronary Artery: Value of Coronary Computed Tomography Angiography

Thiago Andrade Macedo, Carlos Eduardo Elias Prazeres, Pedro Gabriel Melo de Barros e Silva, Bernardo Baptista da Cunha Lopes, Luciana de Pádua Silva Baptista

Hospital TotalCor, São Paulo, SP – Brazil

A 49-year-old patient was admitted to the emergency room with an atypical chest pain. He reported dyslipidemia and smoking. Physical examination was normal. Electrocardiography and myocardial necrosis markers were normal. Coronary CT angiography has been proven to be safe and effective in stratifying chest pain, especially in patients with intermediate risk, as described in guideline. Considering this aspect, we opted for noninvasive evaluation.

No coronary disease was detected. However, the double origin of the anterior descending artery (ADA), with the long branch originating from the right sinus of Valsalva, was observed. This anatomical variation was described by Spindola-Franco et al. as type IV dual anterior descending coronary artery, with an incidence of around 0.05%, characterized as an extremely rare congenital coronary anomaly.

Authors’ contributions

Research creation and design: Macedo TA, Prazeres CEE, Barros e Silva PG, Lopes BBC, Baptista LPS; Data acquisition: Macedo TA, Prazeres CEE, Barros e Silva PG, Lopes BBC, Baptista LPS; Data analysis and interpretation: Macedo TA, Prazeres CEE; Manuscript writing: Macedo TA, Prazeres

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Potential Conflicts of Interest
No relevant conflicts of interest.

References

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